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/SUMMARY7

A METHOD OF INCREASING THE LIFE OF CYLINDER HEADS

Engineer Chirkov

Cylinder heads are one of the most valuerable parts of combustion engines. The lower portion seems to suffer most due to overloading and heat generation: Attempts have been made to improve the dependability of ordinder heads, but, up to the present, with little success. Bessemer sixed and welding have been used in the construction of cylinder heads, but cast iron is still the basic material.

The greatest defect of cylinder heads is the formation of cracks in the crosspleces between the valves. A temporary measure to alleviate this condition is to strengthen the head in the most valuerable spot. On the base of the head between the openings of the valves, inserts, widened at the ends and made of high-grade steel, are placed perpendicular to a line passing the centers of the slots. The inserts are prepared individually; then they are heated to a temperature of 900 degrees C and are stamped while hot. The inserts are secured to grooves in the crosspieces. They are cooled and shrunk and immediately strengthen that part of the head in which cracks may form.

The above-described method of strengthening cylinder heads is used by Chirkov at one of the transfer stations of the Astrakhan Saraton pipe line.

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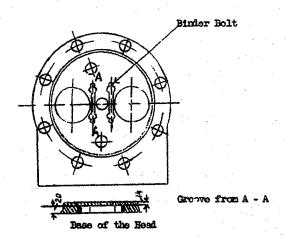
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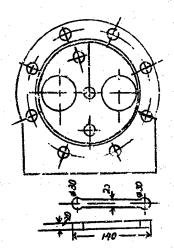
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